

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01436

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B7/28 E21B17/10 E21B7/04 F16L58/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 124 325 A (RYAN AND SONS LTD D J;BRITISH GAS CORP) 15 February 1984 (1984-02-15) page 1, line 102-105 page 1, line 117 -page 2, line 2 page 2, line 17-24 figure 1	1,5, 17-23
Y		2-4,6,7, 37,38
Y	US 4 319 648 A (CHERRINGTON MARTIN O) 16 March 1982 (1982-03-16) the whole document ----- -/-	2,3



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the international search

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17/06/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 166 065 A (WEBCO LTD) 30 April 1986 (1986-04-30) , sentences 25-39 abstract figure 1	24, 25, 29, 36
Y		4, 6, 37, 38
X	----- US 2 158 771 A (BECKWITH LAWTON B) 16 May 1939 (1939-05-16) column 1, line 12-33 column 2, line 27-51 figures 1, 2	24-26, 36
Y		7
A	----- US 5 621 025 A (TRAN BANG T ET AL) 15 April 1997 (1997-04-15) column 5, line 35-54 -----	24

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